[irase] Submission Acknowledgement

Dari: IRASE - system e-mail (no-reply_irase@akkrt.hu)

Kepada: n4wati@yahoo.co.id

Tanggal: Jumat, 29 November 2019 21.43 GMT+7

Dear ni ketut catur wati,

Thank you for submitting the manuscript, "Myristic Acid as Phase Change Material (PCM) for Increased Productivity of Solar Distillation Plant" to International Review of Applied Sciences and Engineering. With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site:

Submission URL: https://submit.akademiai.com/irase/index.php/irase/authorDashboard/submission/77
Username: cniketut

If you have any questions, please contact me. Thank you for considering this journal as a venue for your work.

IRASE - system e-mail

International Review of Applied Sciences and Engineering

Re: [irase] Editor Decision

Dari: Dr. Lakatos Ákos (alakatos@eng.unideb.hu)

Kepada: n4wati@yahoo.co.id

Tanggal: Senin, 20 April 2020 16.43 GMT+7

Dear Author,

As on 12th December 2019 i sent you the message:

"

Let me further inform you that, if your submission will be accepted the appearance of you paper can be expected in the 3rd Issue in 2020 or 1st Issue in 2021.

Now it is planned in th 3rd Issue in 2020 so it will be pubished in this year in December!

My best regards.

Dr. Ákos Lakatos PhD

Deputy Editor-in-chief

2020. 04. 20. 10:55 keltezéssel, Ni Ketut Caturwati írta:

Dear : Dr. Ákos Lakatos

Would you inform to me about the submission progress of the paper that I sent earlier with the title : " Myristic Acid as Phase Change Material (PCM) for Increased Productivity of Solar Distillation Plant".
What do I need to do so that the paper can be published immediately ?

Thank you for your attention.

Best regard,
Caturwati
Pada Jumat, 20 Maret 2020 23.35.35 WIT, Ni Ketut Caturwati <n4wati@yahoo.co.id> menulis:

Dear Dr. Lakatos Akos

I have done the corrections you asked me earlier. Here I attached the ready paper that has edited and the track revision article. I hope the paper is good enough to be published in International Review of Applied Sciences and Engineering Journal.
Thank you.

Sincerely,

Caturwati Ni Ketut.

Pada Jumat, 20 Maret 2020 16.17.54 WIT, Dr. Lakatos Ákos <alakatos@eng.unideb.hu> menulis:

Dear Author,

I have checked your paper that you have sent to me.

In the acceptance llete you got some comments, what you have to do and improve the english.

"Please, read the entire manuscript very carefully, correct the errors and improve the language."

Downer you can see the doc to doc comparison results and no changes are observable in your paper.

Please make the correction in your paper and send me again for copyediting!!!!

Are you able to have the papers english language text checked?

Thanks.

Dr. Ákos Lakatos

2020. 03. 19. 18:40 keltezéssel, Ni Ketut Caturwati írta:

Dear Mr.Dr. Ákos Lakatos

I am very glad for the decision to accept my paper : "Myristic Acid as Phase Change Material (PCM) for Increased Productivity of Solar Distillation Plant" for published at International Review of Applied Sciences and Engineering. hereinafter, I send the final version for copy editing as an attachment file.
Please provide further information.

Best Regard,
Caturwati Ni Ketut

Pada Rabu, 18 Maret 2020 16.03.48 WIT, Ákos Dr. Lakatos <alakatos@eng.unideb.hu> menulis:

ni ketut catur wati:

We have reached a decision regarding your submission to International Review of Applied Sciences and Engineering, "Myristic Acid as Phase Change Material (PCM) for Increased Productivity of Solar Distillation Plant".

Our decision is to: Accept Submission

Ákos Dr. Lakatos
University of Debrecen, Faculty of Engineering, Department of Building Services and Building Engineering
alakatos@eng.unideb.hu

Reviewer A:

Review for International Review of Applied Sciences and Engineering: **Myristic Acid as Phase Change Material (PCM) for Increased Productivity of Solar Distillation Plant**

I have no further scientific questions and I recommend the manuscript for publication after appropriate improvement of the English. In its present form, it is still below average.

Corrections shown in bold for the Abstract.

Using the appropriate PCM **is** expect**ed** to make the distillation process smoother and increase the production of pure water. In this study, myristic acid **was** used as PCM in double slope solar distillation system. Through observation, it **was** obtained that the average water temperature in the basin equal**s** 42.5 °C while the melting point of the myristic acid was 58 ℃. This shows that the use of myristic acid as an energy storage through phase change process does not occur. Therefore, the use of myristic acid as PCM for increasing the productivity of solar distillation in these experiments is not effective because the melting point of PCM **is** higher than water temperature in the basin.

Please, read the entire manuscript very carefully, correct the errors and improve the language.

Recommendation: Accept Submission

Reviewer B:

The paper was corrected accordingly to my comments and can be accepted for publication in the present form.

Recommendation: Accept Submission

Editor's comment:

Dear Author,

Now your paper is acceptable but we need some further corrections, regarding your paper. See the reviewers comments.

What is necessary is to do an english text edit, too.

If you are ready please upload/send me the final version of your paper for copyediting.

Looking forward to receive the final version of your paper.

My best regards,

Dr. Ákos Lakatos

International Review of Applied Sciences and Engineering

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Dr. Lakatos Ákos Ph.D.
egyetemi docens/associate professor
Tanszékvezető-helyettes/Deputy Head of Department

Debreceni Egyetem Műszaki Kar
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Dr. Lakatos Ákos Ph.D.
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[irase] Editor Decision

Dari: Ákos Dr. Lakatos (alakatos@eng.unideb.hu)

Kepada: n4wati@yahoo.co.id

Tanggal: Selasa, 28 Januari 2020 21.23 GMT+7

Dear ni ketut catur wati,

We have reached a decision regarding your submission to International Review of Applied Sciences and Engineering, "Myristic Acid as Phase Change Material (PCM) for Increased Productivity of Solar Distillation Plant".

Our decision is to: Resubmit for Review

Ákos Dr. Lakatos
University of Debrecen, Faculty of Engineering, Department of Building Services and Building Engineering
alakatos@eng.unideb.hu

Reviewer 1:

Please see the attachment.

Recommendation: Revisions Required

Reviewer 2:

The authors provided interesting paper dealing with the suitability of myristic acid as a cooling agent for solar distillation plants. However, some minor issues can be noted as follows.

Authors should improve the English, due to numerous typos and incorrect terms such as

„an obstacles“ do not use the indefinite article for plurals

„coast areas“ I suggest using the term coastal areas

„Cilegon area“ – the Cilegon area

„temperatur“ - temperature

And more

The introduction part should be completed by references since only five references are used despite many facts obtained from the literature. For example, the paragraph needs to be supported by a relevant reference.

I suggest to use a table for PCMs properties requirements

Please refer in the text to figures before (Figure 1)

Description of used materials: please use a point instead of a comma as a decimal separator.

Please provide the name of suppliers of used materials

Conclusions

AUthors should condense all obtained data from the performed experiments in a few paragraphs. However, I don't see any justification of the ůast paragraph which refers to better suitability of PCMs having a melting temperature in the range from 35 to 40 °C.

Recommendation: Revisions Required

Reviewer 3:

Review for International Review of Applied Sciences and Engineering: Myristic Acid as Phase Change Material (PCM) for Increased Productivity of Solar Distillation Plant

The authors focus on a very urgent problem (limited availability of freshwater) and a potential solution (solar distillation). Although the present effort seems fruitless (because of the high melting point of myristic acid), the idea, the scientific approach and the results are valuable. Therefore, I recommend the manuscript for publication after revision.

In reference to the submitted manuscript, please, find my comments and suggestions below.

1) Using comma as a delimiter is very confusing. The International Bureau of Weights and Measures advocates the use of a thin space, instead. Or simply use the corresponding prefixes (e.g. 71,672 lx = 72 klx) or the scientific notation (e.g. 71,672 lx = 7.2×10^4 lx). Please, correct it everywhere!

2) If initial data are seemingly measured by 2-3 significant digits (e.g. in Table 1), it is scientifically incorrect to provide averages with 4-5 figures (e.g. 71672 lux or 44.16 °C). Please, rewrite the text accordingly!

3) Table 1 presents experimental results, should be moved to the Result section.

4) The solar radiation intensities in Table 1, in Figure 3 and in the text in between are inconsistent.

In Table 1: Ir × 1000 = 73 lx => Ir = 0.073 lx,

In Figure 3: Ir × 100 = 600 lx => Ir = 6 lx,

In text: 71,672 lx (71 672 lx).

The reviewer assumes that all values should be around 10^4 lx.

That is:

in Table 1: Ir × 10^{-3} = 73 lx => Ir = 7.3 × 10^4 lx,

in Figure 3: Ir × 10^{-2} = 600 lx => Ir = 6 × 10^4 lx,

In text: 71 672 lx, which is 7.2 × 10^4 lx.

I also need to mention that lux is the name of the measurement unit of illuminance, the symbol of the unit is lx. I strongly suggest to use the latter one.

5) Experimental Setup:

Mass: 63,6 litters. Is it 63.6 liters? Then it is the volume (not the mass) of the water.

Upon the addition of 4 kg of myristic acid to the water, a heterogeneous system with 2 phases was obtained due to the hydrophobicity of the fatty acid?

6) Table 1 presents the experimental data from day 1, later in the manuscript, it is stated that „The first day's measurement data cannot be displayed due to measurement errors.”

What was the problem with the data from day 1?

7) In Figures 5 and 6, the volume of the distillate should be denoted by V (instead of Q).

8) The English should drastically be improved, in its current form, the manuscript is inappropriate for publication. There are plenty of typos and grammatical errors throughout the manuscript.

Without a claim to completeness:

Abstract:

- but the quality cannot be consumed by humans => but due to the quality, such water is impotable.

- myristic acid is a common name (just like hydrochloric acid, nitric acid etc.), there is no reason to use capital letter.

- …melting point of PCM „is” higher than „the” maximum temperature in the basin.

- below 40 C => below 40 °C

Introduction:

- solar distilation => solar distillation

- this makes the air inside the equipment has high moisture => this makes the air inside the equipment humid OR this makes the air inside the equipment of high moisture

- H_2 O => H_2O

- the energy of solar radiation can be stored for use when decreases or no solar radiation intensity => the energy can be stored for use when solar radiation decreases or is not available at all.

- Based on the nature of solar energy requires two main components needed to utilize this solar energy. Both components are collector units and storage units. => Two main components are required to utilize solar energy: collector units and storage units.

- For phase change material application selection is most important to pay attention about the phase change temperature. => For phase change material application selection, the phase change temperature is of utmost importance.

Experimental:

- For summer climatic conditions, system double slope basin stills provides better performance than single basin stills, vice versa system single slope is better for cold climatic conditions => For summer climatic conditions, systems „with” double slope basin stills provides better performance than single basin stills, vice versa systems „with” single slope are better for cold climatic conditions

Methodology:

- is a tropical climate with a wet, hot and humid the entire year => with a tropical (wet, hot and humid) climate the entire year

Conclusion:

- This values is lower => This value is lower

- it is quite helpful increasing => it is quite helpful „in” increasing

- PCM material…. in the Cilegon are is a material => PCM material…. in the Cilegon are is a material

Please, read the entire manuscript very carefully, correct the errors and improve the language.

Recommendation: Revisions Required

Editor's comments:

Dear Authors,

As the above reviewer's decisions I kindly ask you to create the revised version of your manuscript.

With the submission of your manuscript please submit simultaneously the response to review file where you highlight the changes you made.

Let me inform you that graphs/figures prevoiusly published elsewehere can not be included in the paper.

Looking forward to receiving the revised version of your paper.

My best regards,
Dr. Ákos Lakatos

International Review of Applied Sciences and Engineering

D-Review comments.docx
11.6kB